

ABSTRACT

According to one embodiment a system is disclosed. The system includes a central processing unit (CPU), a first cache memory coupled to the CPU to store only data for vital loads that are to be immediately processed at the CPU, a second cache memory coupled to the CPU to store data for semi-vital loads to be processed at the CPU, and a third cache memory coupled to the CPU, the first cache memory and the second cache memory to store non-vital loads to be processed at the CPU.